BBA

Molecular Basis of Disease

Vol. 1138, 1992

# Cumulative Contents

*Information for Contributors* vii

## *Regular Papers*

Altered glucose metabolism in adriamycin-induced heart failure
*J.C. Chatham, G.M. Hutchins and J.D. Glickson (U.S.A.)* 1

The chemical characterization of melanin contained in substantia nigra of human brain
*L. Zecca, C. Mecacci, R. Seraglia and E. Parati (Italy)* 6

Peroxide-metabolizing systems of the crystalline lens
*M.A. Babizhayev, A.I. Deyev and A.V. Chernikov (U.S.S.R.)* 11

Niemann-Pick Type II fibroblasts exhibit impaired cholesterol esterification in response to sphingomyelin hydrolysis
*D.M. Byers, M.W. Morgan, H.W. Cook, F.B. St. C. Palmer and M.W. Spence ((Canada))* 20

A novel polymorphism of apolipoprotein A-IV is the result of an asparagine to serine substitution at residue 127
*H. Tenkanen, P. Koskinen, J. Metso, M. Baumann, M. Lukka, R. Kauppinen-Mäkelin, K. Kontula, M.-R. Taskinen, M. Mänttäri, V. Manninen and C. Ehnholm (Finland)* 27

Large deletion of androsterone UDP-glucuronosyltransferase gene in the inherited deficient strain of Wistar rats
*H. Homma, H. Kawai, M. Kubota and M. Matsui (Japan)* 34

The validity of the cholesterol nucleation assay
*M.A.C. De Bruijn, C. Noordam, B.G. Goldhoorn, G.N.J. Tytgat and A.K. Groen (The Netherlands)* 41

Lithium treatment of affective disorders: effects of lithium on the inositol phospholipid and cyclic AMP signalling pathways
*D.J. Sillence and C.P. Downes (U.K.)* 46

Factor XIII-dependent generation of 5th complement component(C5)-derived monocyte chemotactic factor coinciding with plasma clotting
*M. Okamoto, T. Yamamoto, S. Matsubara, I. Kukita, M. Takeya, Y. Miyauchi and T. Kambara (Japan)* 53

Molecular interaction between HIV-1 major envelope glycoprotein and dextran sulfate
*E. Mbemba, V. Chams, J.-C. Gluckman, D. Klatzmann and L. Gattegno (France)* 62

Expression of the mouse c-*abl* type IV proto-oncogene product in the insect cell baculovirus system
*T.C. Peakman, C.H. Reynolds, M.G. Willson, J.D. Moore, P. Spence, M. Sydenham, D.J. Linstead, D.R. Gewert and M.J. Page (U.K.)* 68

Interleukin-1 inhibits $PGE_2$ binding to macrophage-like $P388D_1$ cells by a cyclic AMP-independent process
*M.G. Rae, D. Rotondo, A.S. Milton and A.K. Dutta-Roy (U.K.)* 75

Fatty acid $\beta$-oxidation in leukocytes from control subjects and medium-chain acyl-CoA dehydrogenase deficient patients
*R.J.A. Wanders and L. Ijlst (Netherlands)* 80

## *Regular Papers*

Cytotoxic effects of rheumatoid arthritis sera on chondrocytes
*D. Mettal, K. Brune and J. Mollenhauer (Germany)* 85

Altered ratio of collagen chains in bone of a patient with non-lethal osteogenesis imperfecta
*B.P. Sokolov, B.M. Sher, J. Hausmann, I. Mařik, Z. Deyl and V.N. Kalinin (U.S.S.R., Czechoslovakia)* 93

Methylated lysine in storage body protein of sheep with hereditary ceroid-lipofuscinosis
*M.L. Katz and K.O. Gerhardt (U.S.A.)* 97

Production of monoclonal antibodies against the B700 murine melanoma antigen and their antimetastatic properties
*D.M. Gersten, D. Moody, W.D. Vieira, L.W. Law and V.J. Hearing (U.S.A.)* 109

Identification of several cyclosporine binding proteins in lymphoid and non-lymphoid cells in vivo
*B.M.J. Foxwell, G. Woerly, H. Husi, A. Mackie, V.F.J. Quesniaux, P.C. Hiestand, R.M. Wenger and B. Ryffel (Switzerland)* 115

Study on the mechanism of *Giardia lamblia* induced diarrhoea in mice
*S. Gorowara, N.K. Ganguly, R.C. Mahajan and B.N.S. Walia (India)* 122

Structure of the EF corner favors deamidation of asparaginyl residues in hemoglobin: the example of Hb La Roche-sur-Yon [β81 (EF5) Leu → His]
*H. Wajcman, J. Kister, C. Vasseur, Y. Blouquit, J.C. Trastour, D. Cottenceau and F. Galacteros (France)* 127

Membrane-associated and secreted proteoglycans from a continuous cell line derived from fibrotic schistosomal granulomas
*L.-C.F. Silva, R. Borojevic and P.A.S. Mourão (Brazil)* 133

Cell-to-cell contact between normal fibroblasts and lymphoblasts deficient in lysosomal enzymes
*P. Di Natale, T. Annella, A. Daniele, R. Negri and L. Nitsch (Italy)* 143

Human HuH-7 hepatoma cells express urokinase and plasminogen activator inhibitor-1: identification, characterization and regulation by inflammatory mediators
*A. Arndt, P. Murphy and D.A. Hart (Canada)* 149

Stimulation of arachidonic acid metabolism by a streptococcal preparation (OK-432) in rat peritoneal macrophages
*M. Watanabe, Y. Shishido, N. Hirasawa, S. Mue, H. Fujiki and K. Ohuchi (Japan)* 157

Conformational integrity of a recombinant toxoid of *Pseudomonas aeruginosa* exotoxin A containing a deletion of glutamic acid-553
*K.P. Killeen and R.J. Collier (U.S.A.)* 162

Abnormal expression of urea cycle enzyme genes in juvenile visceral steatosis (jvs) mice
*M. Tomomura, Y. Imamura, M. Horiuchi, T. Koizumi, H. Nikaido, J.-I. Hayakawa and T. Saheki (Japan)* 167

## *Regular Papers*

Studies of the permeation properties of glomerular basement membrane: cross-linking renders glomerular basement membrane permeable to protein
*H.A. Walton, J. Byrne and G.B. Robinson (U.K.)* 173

Decreased tubulin synthesis in synoviocytes from adjuvant-induced arthritic rats
*R. Ramos-Ruiz, J. Avila, J.P. López-Bote, C. Bernabeu and V. Larraga (Spain)* 184

Synthesis of structurally unstable type III procollagen in patients with cerebral artery aneurysm
*K. Majamaa, E.-R. Savolainen and V.V. Myllylä (Finland)* 191

The structural mimicry of membrane sterols by tamoxifen: evidence from cholesterol coefficients and molecular-modelling for its action as a membrane anti-oxidant and an anti-cancer agent
*H. Wiseman, M. Cannon, H.R.V. Arnstein and D.J. Barlow (U.K.)* 197

Lipid metabolism in large T47D human breast cancer spheroids: $^{31}$P- and $^{13}$C-NMR studies of choline and ethanolamine uptake
*S.M. Ronen, E. Rushkin and H. Degani (Israel)* 203

Characterization of different proteolytic activities in *Trypanosoma brucei brucei*
*G. Huet, C. Richet, D. Demeyer, H. Bisiau, B. Soudan, D. Tetaert, K.K. Han and P. Degand (France)* 213

Ageing of the human corneal stroma: structural and biochemical changes
*N.S. Malik, S.J. Moss, N. Ahmed, A.J. Furth, R.S. Wall and K.M. Meek (U.K.)* 222

Unimpaired formation of hormone-stimulated inositol trisphosphate in human mesangial cells under hyperglycemic conditions
*L. Greenberg, A.Q. Urbanes and J.A. Shayman (U.S.A.)* 229

Branched chain acyltransferase absence due to an Alu-based genomic deletion allele and an exon skipping allele in a compound heterozygote proband expressing maple syrup urine disease
*W.J. Herring, M. McKean, N. Dracopoli and D.J. Danner (U.S.A.)* 236

Activation of human plasma prekallikrein by *Pseudomonas aeruginosa* elastase. II. Kinetic analysis and identification of scissile bond of prekallikrein in the activation
*H. Tanaka, T. Yamamoto, Y. Shibuya, N. Nishino, S. Tanase, Y. Miyauchi and T. Kambara (Japan)* 243

*Titles of Related Papers in Other Sections* 251

## *Review*

Adenosine deaminase deficiency: a model system for human somatic cell gene correction therapy
*M.A. Vega (Germany)* 253

## *Regular Papers*

Primary structure differences of human surfactant-associated proteins isolated from normal and proteinosis lung
*T. Voss, K.P. Schäfer, P.F. Nielsen, A. Schäfer, C. Maier, E. Hannappel, J. Maaßen, B. Landis, K. Klemm and M. Przybylski (Germany)* 261

Ethanol-responsive gene expression in neural cell cultures
*M.F. Miles, J.E. Diaz and V. DeGuzman (U.S.A.)* 268

A procedure for selecting mammalian cells with an impairment in oxidative phosphorylation
*M.C.P. Lombardo, J.W. Van der Zwaan, S. Brul and J.M. Tager (The Netherlands, Italy)* 275

Anti-idiotypic and anti-anti-idiotypic responses to a monoclonal antibody directed to the acetylcholine receptor binding site of curaremimetic toxins
*L. Pillet, I. Charpentier, M. Léonetti and A. Ménez (France)* 282

Apolipoprotein B-32: a new truncated mutant of human apolipoprotein B capable of forming particles in the low density lipoprotein range
*S.P.A. McCormick, A.P. Fellowes, T.A. Walmsley and P.M. George (New Zealand)* 290

Proteolytic susceptibility of the central domain in chicken gizzard and skeletal muscle dystrophins
*N. Augier, J. Leger, A. Robert, F. Pons, J.J. Leger and D. Mornet (France)* 297

High resolution proton magnetic resonance spectroscopy of cyst fluids from patients with polycystic kidney disease
*P.J.D. Foxall, R.G. Price, J.K. Jones, G.H. Neild, F.D. Thompson and J.K. Nicholson (U.K.)* 305

Two small deletion mutations of the *HEXB* gene are present in DNA from a patient with infantile Sandhoff disease
*B. McInnes, C.A. Brown and D.J. Mahuran (Canada)* 315

Enhanced localization of liposomes with prolonged blood circulation time in infected lung tissue
*I.A.J.M. Bakker-Woudenberg, A.F. Lokerse, M.T. Ten Kate and G. Storm (The Netherlands)* 318

T lymphocytes increase the synthesis of esterified cholesterol in human monocyte-derived macrophages by activation of the scavenger pathway
*H. Kotake, S. Oikawa, T. Naito, K. Hayasaka and T. Toyota (Japan)* 327

Mannose 6-phosphate/insulin-like growth factor II receptor in I-cell disease fibroblasts: increased synthesis and defective regulation of cell surface expression
*T. Braulke, S. Tippmer, U. Matzner, C. Gartung and K. Von Figura (Germany)* 334

Simultaneous reduction of the sarcolemmal and SR calcium ATPase activities and gene expression in cardiomyopathic hamster
*T.H. Kuo, W. Tsang, K.K.W. Wang and L. Carlock (U.S.A.)* 343

## *Rapid Reports*

Linear correlation between acetoacetate/β-hydroxybutyrate in arterial blood and oxidized flavoprotein/reduced pyridine nucleotide in freeze-trapped human liver tissue
*K. Ozawa, B. Chance, A. Tanaka, S. Iwata, T. Kitai and I. Ikai (Japan, USA)* 350

A newly identified null allelic mutation in the human lipoprotein lipase (LPL) gene of a compound heterozygote with familial LPL deficiency
*T. Gotoda, N. Yamada, T. Murase, S. Miyake, R. Murakami, M. Kawamura, K. Kozaki, N. Mori, H. Shimano, M. Shimada and Y. Yazaki (Japan)* 353

*Cumulative Contents, Vol. 1138* 357

*Author Index* 361